LYALIKOV, KS.

USSR/Optics - General Problems.

K-l

Abs Jour

: Referat Zhur - Fizika, No 3, 1957, 7574

Author

: Lyalikov, K.S.

Inst

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Title

Conference on Spectroscopy of Disperse Systems

Orig Pub

: Zh. nauch. i prikl. fotogh. i kinemat oys., 1956, 1, No 4,

312-313

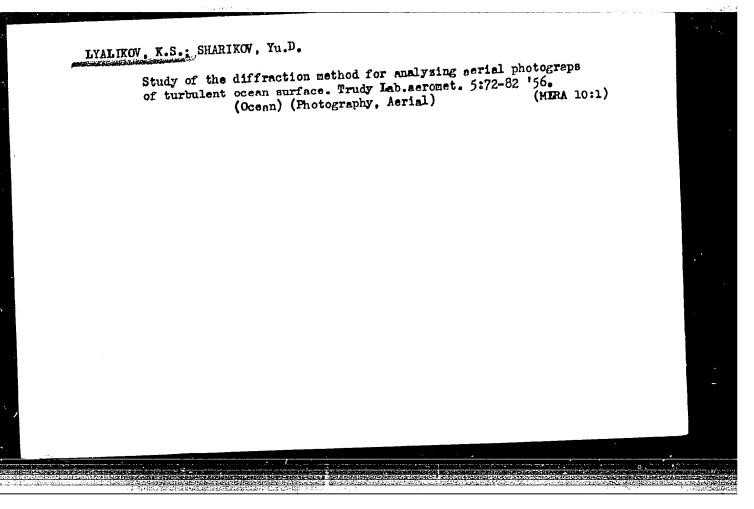
Abstract

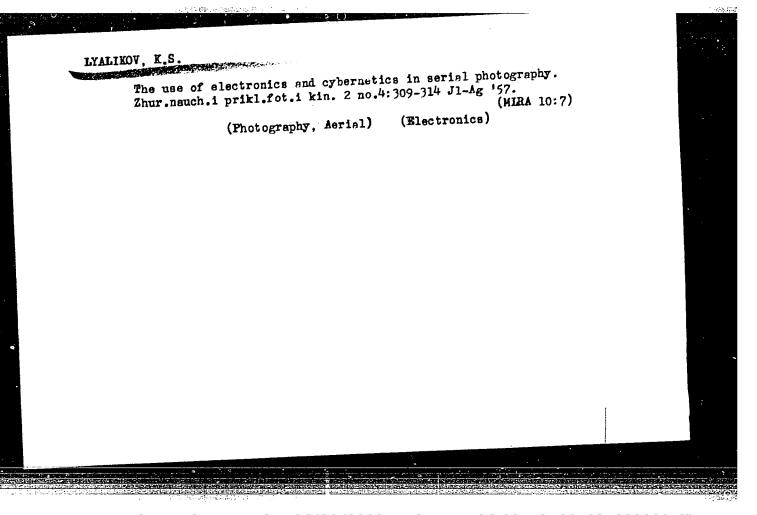
: Report on the first conference on the spectroscopy of disperse systems, organized by the Commission on Spectroscopy of the Academy of Sciences, USSR, and held in Moscow

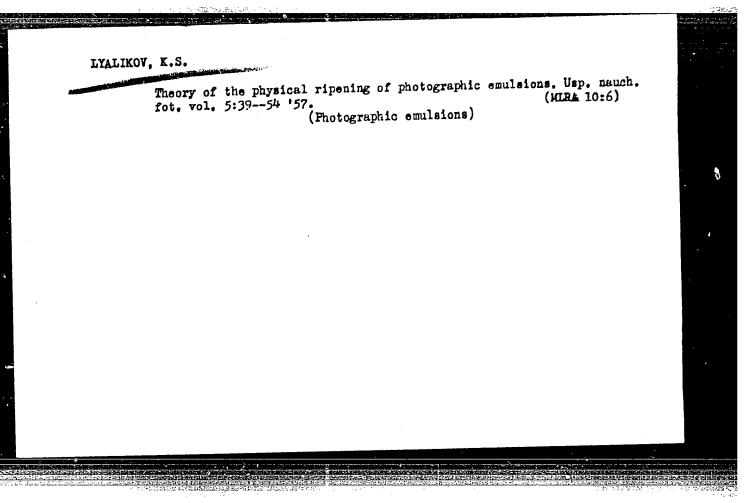
on 29 -- 30 March, 1956.

Card 1/1

- 2 -







LYALIKOV, K.S. professor; SHARIKOV, Yu. "

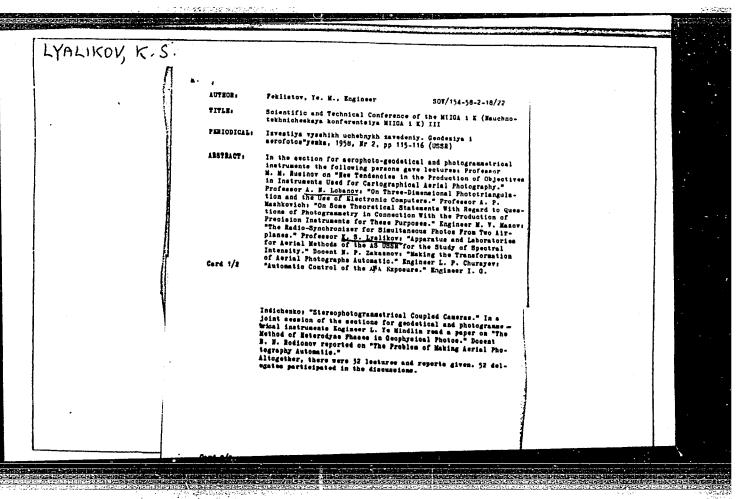
Using diffraction method in analyzing aerial photographs. Prirods
(WIRA 10:3)
46 no.2:79-81 P '57.

1. Laboratoiya aerometodov Akademii nauk SSSR, Leningrad.
(Diffraction) (Photographic interpretation)

IYALIKOV, K.S., professor; SHARIKOV, Yu.D.

Deciphering aerial photography of the sea swell. Priroda 46
no.4:79-80 Ap '57.

1. Laboratoriya aerometodov Akademii nauk SSSR (Leningrad).
(Photographic interpretation) (Photography, Aerial) (Waves)



LYALIKOV, K. S.

"Investigations of the Recrystallization Process of Polydisperse Systems Stabilized Against Aggregation."  $\,$ 

report presented at the Section on Colloid Chemistry, VIII Mendeleyev Conference of General and Applied Chemistry, Moscow, 16-23 March 1959. (Koll. Zhur. v. 2lm No. 4, \$\frac{1}{2}p. 509-511)

3(4), 24(7)

SOV/154-59-2-13/22

AUTHOR:

Lyalikov, K. S., Doctor of Chemical Sciences

TITLE:

Device for the Investigation of the Spectral Luminosity Used at the Laboratory for Aerial Methods at the AS USSR (Apparatura

laboratorii aerometodov AN SSSR dlya issledovaniy

spektral'noy yarkosti)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i

aerofotos"yemka, 1959, Nr 2, pp 87-91 (USSR)

ABSTRACT:

All pre-war work concerned with the spectral characteristics of objects of aerial photographs shows a number of deficiencies. The investigation of the spectral luminosity carried out at the Laboratory for Aerial Methods was first done on the ground, as

before the war. For this purpose the author and M. V.

Savost'yanova (Ref 2) worked out a field measuring method with the help of a universal photometer with interference lightfilters. Since this, however, does not allow measurements in the invisible part of the spectrum nor those from an airplane, aerial spectrographs and terrestrial photoelectric spectrometers were later developed. The forestry group of the laboratory, S. V. Belov and collaborators, showed that the spectral

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SOV/154-59-2-13/22

Device for the Investigation of the Spectral Luminosity Used at the Laboratory for Aerial Methods at the AS USSR

luminosity of the individual tree-top is identical to that of a considerable section of forest, provided the measurements take place at identical exposures. The following demands are made on the device for aerial photography: 1) The device must supply a spectral luminosity curve of not too large a section of the object of aerial photography. 2) Together with the taking of the spectrum, the section of the object (on which the surface, from which the reflected light is taken, must be exactly indicated) must be synchronously photographed. 3) The device must allow the taking of a picture from at least not very high an altitude. 4) The range of wave lengths, in which the measurements can be carried out, should be between 400 and 1000 mu. Instruments for terrestrial surveys must comply with the lastmentioned requirement. Apart from this they must be easily transportable and reliable. The aero-spectrograph which has been developed in the Laboratory by M. A. Romanova and Yu. P. Shchepkin, complies with these requirements in the best way. The device operates, however, within the relatively close range of wave lengths of 500 to 650 mu. The difficulties

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SOV/154-59-2-13/22

Device for the Investigation of the Spectral Luminosity Used at the Laboratory for Aerial Methods at the AS USSR

arising when working with a prismatic spectrograph were eliminated by the use of a diffraction grid. The first model of the photoelectric spectrophotometers was built by V. V. Kol'tsov and the second by A. P.Kharchenko. The second is being tested at present. It makes it possible to measure the reflection coefficient within the range of wave lengths of 450 - 800 mu.-The first model of a spectrovisor (spektrovizor) was designed in 1956 by V. V. Kol'tsov, the second in 1957. Both proved to be a failure. At present a third model is being tested. The optical part of it was worked out by I. V. Semenchenko and the electrical part by E. A. Sorri and K. Ye. Meleshko. A diffraction grid is used here as a dispersion system. The movement of the oscilloscope beam along both axes is controlled by the same mirror, which secures a complete synchronization. The work by A. B. Vistelius and M. A. Romanova showed that the investigations here mentioned can be considered to be a new method for the solution of geological problems .- In conclusion the following can be said: For the solution of aereophotographic problems it is necessary to have two types of instruments for the measurement

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SOY/154-59-2-13/22

Device for the Investigation of the Spectral Luminosity Used at the Laboratory for Aerial Methods at the AS USSR

> of the spectral luminosity on the ground and from the airplane. Photoelectrical instruments are to be preferred for terrestrial measurements. For aerial surveys light type spectrographs and spectrovisors (spektrovizir) can be used. For terrestrial and aerial measurements the dimensions of the surfaces, whose spectral luminosity is measured should be made, to correspond to the picture details. When measuring the spectral luminosity from the air, the synchronous photographing of the object must be secured. The point whose spectral luminosity has been measured, must be on the aerial photograph. The use of diffraction grids as dispersion systems is preferable in all cases. There are 2 Soviet references.

ASSOCIATION:

Laboratoriya aerometodov AN SSSR (Laboratory for Aerial Methods at the AS USSR)

Card 4/4

Ways of improving aerial photography. Trudy Lab.aeronet. 7:
19-24 '59.

1. Laboratoriya aerometodov AN SSSR.
(Photography, Aerial)

AUTHOR:

Lyalikov, K.S.

SOV/77-4-1-13/22

TITLE:

A Survey of Foreign Works on Electrophotography (Obzor zarubezhnykh rabot po elektrofotografii)

PERIODICAL:

Zhurnal nauchnoy i prikladnoy fotografii i kine-matografii, 1959, Vol 4, Nr 1, pp 68-74 (USSR)

ABSTRACT:

The article describes recent American achievements in the field of electrophotography, especially the IBM 939. There are 3 photographs, 5 diagrams, 2 graphs, 1 table and 9 American references.

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# "APPROVED FOR RELEASE: 06/20/2000

# CIA-RDP86-00513R001031020008-6

23(4) 23 (5)

SOV/77-4-2-15/18

AUTHOR:

Lyalikov, K.S.

TITLE:

Successes of Soviet Electrophotography (Uspekhi sovetskoy elektrofotografii) A Scientific and Technical Conference on Questions of Electrography (Nauchno-teknnicheskaya konferentsiya po voprosam elektrografii)

PERIODICAL:

Zhurnal nauchnoy i prikladnoy fotografii i kinematografii,

1959, Vol 4, Nr 2, pp 149-152 (USSR)

ABSTRACT:

This is an account of a scientific and technical conference on electrography, the first to be held in the Soviet Union and evidently in the world. It was organized in Vil'nyus on December 16-19, 1958 by the Soviet narodnogo khozyaystva Litovskoy SSR (Council for National Economy of the Lithuanian SSR), the Gosudarstvennyy nauchno-tekhnicheskiy komitet Soveta ministrov Litovskoy SSR (State Scientific and Technical Committee of the Council of Ministers of the Lithuanian SSR) and

Card 1/10

Successes of Soviet Electrophotography; A Scientific and Technical Conference on Questions of Electrography

the Nauchno-issledovatel'skiy institut elektrografii (Scientific Research Institute of Electrography).

The conference, attended by over 300 scientific workers, was opened by the Deputy Chairman of the Council for National Economy of the Lithuanian SSR P.A.

Kul'vets, after which the director of the Institute for Electrography, I.I. Zhilevich, reviewed the state and prospects for development of electrography in the USSR. He stated that research in this field should be carried out along the following lines: a) a search for new photo-active materials with high dark resistance; b) physical research into the internal photoeffect; c) development of photosemiconductor layers; d) development of the theory of the electrophotographic process. K.S. Lyalikov (speaking also for O.G. Fopova) gave a report in which he suggested determining the

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Successes of Soviet Electrophotography; A Scientific and Technical Conference on Questions of Electrography

light sensitivity of electrophotographic layers in GOST units. N.Z. Plavina (speaking also for I.I.Zhilevich, L.I.Nyun'ko, N.N.Markevich, B.I. Kalinauskens and O.M. Suveyzdis) reported on some research on the sensitization of a semiconductor in electrophotographic layers. V.M. Fridkin gave a report on highly sensitive electrophotographic layers and an electrophotocopying device, and reviewed the formation process of the latent electrophotographic image on the basis of the zonal theory. He also described the design of an electrosensitometer for determining sensitivity by the relaxation period of a charge on the surface of the layer, and the circuit of an electrophotographic copying device. Anfilov finished describing the latter and then spoke on the mechanics and kinetics of the development of the latent electrophotographic image in liquid developers.

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Successes of Soviet Electrophotography;  $\Lambda$  Scientific and Technical Conference on Questions of Electrography

K.M. Vinogradov described some of the features of the cascade and liquid methods of electrophotographic development. Yu.Ye. Karpeshko devoted his report to the criterion of light sensitivity of the electrophotographic process. After the reports, a discussion took place on methods of determining the light sensitivity of electrophotographic layers. A.N. Chernyshev spoke on the prospects of developing polygraphic processes using electric and magnetic forces. O.V. Gromov (speaking also for I.I. Zhilevich, A.A. Sukhiy, V.A. Gordeyeva, A.S. Pauzha and Yu. I. Kevalaytis) reported on the development of eletrophotographic reproducing equipment. A.S. Pauzha (speaking also for I.I. Zhilevich, A.S. Borisovich, N.M. Gal'vidiks and M.I.Rautkauskas) reported on the use of electrographic methods in recording oscillographs and other recording instruments.

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Successes of Soviet Electrophotography; A Scientific and Technical Conference on Questions of Electrography

V.P. Yurchenko (speaking also for L.N.Balin) spoke on the possibility of electrophotographically recording images from electron-beam tubes. L.S. Korol' (speaking also for N.N. Markevich, T.I. Kozlovskaya, B.I. Kalinauskene, M.K. Naynens, I.I. Zhilevichyute and E.A. Montrimas) gave a detailed description of laboratory and machine methods of producing photosemiconductor papers (zinc oxide was used). A.A. Sukhiy (speaking also for I.I. Zhilevich, O.V. Grcmov, V.A. Gordeyev, N.V. Fedotov and T.N. Ger) described a laboratory and industrial machine for producing photosemiconductor papers. T.A. Shishkina (speaking also for Ya.A. Oksman) reported on a method of examining electrophotographic materials using an a/c bridge. S.I. Khotyanovich (speaking also for A.I. Gikens and I.S. Shileykens) spoke on developing materials for electrophotography

Card 5/10

Successes of Soviet Electrophotography; A Scientific and Technical Conference on Questions of Electrography

and ferromagnitography, including developers giving a "reverse" image. B.I. Tikhonov reviewed methods of measuring the electrostatic potentials of electrophotographic layers, stressing that the oscillating electrode should not be placed above a layer with varying potential as this causes self-discharge. E.V. Krukovskis (speaking also for R.G.Gorevcy, A.V.Osipov and Ye. S. Kheyfets) spoke on the practice of producing velveteen papers in an electrostatic field, and showed samples produced by the Grigishskaya paper factory. Ye.L. Nemirovskiy then gave a historical review of the development of electrographic methods in which he paid tribute to the work of the Scientific Research Institute of Electrography in Vil'nyus and the Institut poligraficheskogo mashinostroyeniya (Moskva)-(Polygraphic Machine-Building Institute (Moscow)). Debates were then held

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Successes of Soviet Electrophotography; A Scientific and Technical Conference on Questions of Electrography

on methods of measuring the potential of charged electrophotographic layers; the vibration pick-up most-used
was shown in B.I. Tikhonov's report to be not always
accurate. S.G.Grenishin stated that the bad influence
of the oscillating electrods can be eliminated if the
electrode probe above its surface is fixed and the pickup is connected to it by a shielded cable. In the debate on Ye.L. Nemirovskiy's report it was stated that
the research of Academicians A.N. Terenin and Ye.K.
Putseyko should be considered as the basis of all work
on electrophotographic papers with ZnO, as they were
the first to show the possibility of optical sensitization of the internal photoeffect in ZnO. N.M.Gol'
vidis then gave a report on the depositing of charges
by a corona discharge. A.I. Kaminskas and A.P.
Yanulis reviewed some of the results of the use of

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sov/77-4-2-15/18

Successes of Soviet Electrophotography; A Scientific and Technical Conference on Questions of Electrography

electrographic methods in radiography. L.I. Nyun'ko (speaking also for I.I. Zhilevich, I.Z. Plavin, Yu.K. Vishchakas and Yu.A.Zibuts) reported on relaxation processes in semiconductor layers, using a vibration electrometer. Yu.K.Vishakas gave a report on research on some physical properties of the polycrystalline layers of selenious cadmium. M.P. Mikalkyavichyus spoke on some of the photoelectric properties of Sb2S3 and Sb2Se3: the absorption maximum of the latter is about 900 m .

S.M. Neyman reported on methods of obtaining selenium light-sensitive layers, including sublimation and thermal treatment; it was also found that the sensitivity of the layers increased after storage for 1.5 to 2 months at room temperature. P.M. Podvigalkin (speaking also for S.G.Grenishin) spoke on research into the electrical properties of electrophotographic layers of

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Successes of Soviet Electrophotography; A Scientific and Technical Conference on Questions of Electrography

amorphous selenium and powdered zinc oxide. N.K. Shiktorov (speaking also for A.S. Tauraytis) discussed the production of selenium layers and some of their properties. Finally the following reports on ferromagnetography were delivered; 1) B.Ya. Kaznacheyev, V.M.Zhogina, "Electrodeposition of Magneto-hard Alloys With Given Magnetic Characteristics" 2) M.T.Arutyunov, "Visualization of Magnetic Oscillograms by the Ferrographic Method" 3) V.T.Patrunov, "Ferrographic Recording of Facsimile Images" 4) I.I.Zhilevich, I.I. Gikis, B. Ye. Buchek, I.I. Naynise, A.K.Kizhis, "Mock Experiments in Non-Pressure Ferromagnetic Printing". There was also an exhibition showing the work of the Electrographic Institute. The most important conclusion of the conference was that a solid approach had been made to the possibility of wide technical use of the methods

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Successes of Soviet Electrophotography; A Scientific and Technical Conference on Questions of Electrography

of electrography. It was considered that although work in this field actually started only in 1955-56 it has covered as much ground as the USA in 10 years. While admitting that it was easier to reproduce results already achieved than to be the first to arrive at them, the conference observed that the Americans took good care that no important information appeared in the literature available.

Card 10/10

7 (3), 24 (7) AUTHORS:

Lyalikov, K. S., Beloncyova, I. N., SOV/48-23-10-2 Releshko, K. Ye., Semenchenko, I. V., Kharchenko, A. P. SOY/48-23-10-29/39

TITLE:

A New Apparatus and a Method of Investigating the Spectra of Earth-surface Reflection

PERIODICAL:

Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol 23, Nr 10, p 1247 (USSR)

ABSTRACT:

At the Laboratoriya aerometodov AN SSSR (Laboratory for Aeromethods of the AS USSR) a new apparatus and a method were developed, which make it possible to investigate the spectral brightness of objects in aerial photographs. Two types of photoelectrical devices were developed. A. P. Kharchenko developed a photoelectrical spectrophotometer which operates within the range of from 400 to 1000 mm. It is used for investigations carried out from the ground. For the purpose of investigating the spectral brightness of objects from an airplane, Meleshko and Semenchenko developed a fast singlebeam photoelectric spectrometer, in the case of which recording takes place in an electron beam tube (a so-called "spectrovisor"). This device operates within the range of 450-900 mm. Both devices were tested in 1958 with good success.

Card 1/2

A New Apparatus and a Method of Investigating the Spectra of Earth-surface Reflection

SOV/48-23-10-29/39

A method for the rapid construction of the curves of spectral brightness was worked out by means of which the spectral characteristic of a number of objects has already been obtained from aerial pictures taken in the South of the European part of the USSR.

Card 2/2

MARKHILEVICH, K.I.; SHEBERSTOV, V.I.; KIRILLOV, N.I., prof., doktor tekhn.nauk; MASLENKOVA, N.G.; KOLOSOV, K.A.; MIKHAYLOV, V.Ya.; MATIYASEVICH, L.M.; FRIDMAN, I.M.; SPASOKUKOTSKIY, N.S.; KHAZAN, S.M.; DEYCHMEYSTER, M.V.; BLYUMBERG, I.B., dotsent, retsenzent; LYALIKOV, K.S., prof., doktor khim.nauk, retsenzent; TELESHEV, A.N., red.; MALEK, Z.N., tekhn.red.

[Present-day developments in photographic processes; processing of light sensitive materials and new processes for obtaining the photographic image] Sovremennee razvitie fotograficheskikh protsessov; obrabotka svetochuvstvitel'nykh materialov i novye protsessy polucheniia fotograficheskogo izobrazheniia. Pod red. N.I.Kirillova. Moskva, Gos.izd-vo "Iskusstvo," 1960. 341 p. (MIRA 14:4)

1. Leningradskiy institut kinoinzhenerov (for Blyumberg).
(Photographic chemistry)

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# LYALIKOV, K.S. "Technology of processing cinematographic materials" by I.B.Bliumberg, Reviewed by K.S.Lialikov. Zhur.mauch.i prikl. fot.i kin. 5 no.1:78-79 Ja-F '60. (MIRA 13:5) (Wotton-picture photography--Films) (Bliumberg, I.B.)

LYALIKOV, K.S.; SEMENCHENKO, I.V.

Polarizing absorption spectra of some cyanine sensitizing dyes. Zhur.nauch.i prikl.fot.i kin. 5 no.3:161-167
Ny-Je '60. (MIRA 13:7)

1. Iaboratoriya aerometodov AN SSSR. (Photographic sensitometry) (Cyanines)

VICHEK, B. [Vicek, B.]; VICHEOVA, S. [Vickova, S.]; LYALIKOV, K.S., red.perevoda

Measuring the diffusion of sensitizing dyes in gelatine [translated from the Czech]. Zhur.nauch.i prikl.fot.i kin. 5 no.3:187-194 My-Je \*160. (MIRA 13:7)

1. Mauchno-issledovatel\* sky institut narodnogo predpriyatiya Fotokhema, g.Praga (Ohekhoslovakiya). (Photochemistry)

(Photochemistry)

(Photographic sensitometry)

S/077/60/005/003/008/009 E032/E514

AUTHOR: Lyalikov, K.S.

Photographic Science and Technology in Czechoslovakia

PERIODICAL: Zhurnal nauchnoy i prikladnoy fotografii i kinemato-

grafii, 1960, Vol.5, No.3, pp.230-233

TEXT: The principal Czechoslovak institutions working in this field are the following: the Czechoslovak Academy of Sciences. the Charles University, Research Institute for Photographic Chemistry and the Sound and Image Research Institute. In addition, important work is being carried out in small research groups investigating the properties of gelatine at the Institute of the Tanning Industry and at the Laboratory of the Gelatine Department of the Chemical Industry. Among the activities of the Academy of Sciences in this field are the following:

1) Optics Laboratory of the Czechoslovak Academy of Sciences: studies of aspherical surfaces, optical constants, development of an electronic instrument for studying the energy distribution in the circle of diffusion, the quality of the photographic image (Doctor Véra Blumova), infrared studies (Engineer Antonin Vaško).

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TITLE:

s/077/60/005/003/008/009 E032/E514

Photographic Science and Technology in Czechoslovakia

The latter group is concerned with electron optical converters with microscopy, spectroscopy in the near infrared and the control of photographic materials. It is also concerned with the properties of dyes and other materials in the infrared region and the study of anti-reflecting layers for the infrared region. Another line of research by this group is concerned with the properties of selenium, germanium, silicon and other materials. 2) Institute of Nuclear Physics of the Czechoslovak Academy of Sciences: nuclear emulsion work (Docent Josef Kubal). This grouss concerned with the development of nuclear emulsions suitable This group for the recording of of and other particles at low and intermediate It is at present working at the Physics Institute of energies. the Charles University in Prague. 3) Institute of Theoretical Physics at the Czechoslovak Academy of Sciences; this institute is not directly concerned with photography but the late Zdenek Matyas worked at this institute.

Matyas was concerned with the theory of development of silver bromide and received the State Prize for this work. Dr. Miroslav Trlifaj is concerned with problems which are allied to the theory of Card 2/5

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# s/077/60/005/003/008/009 E032/E514

Photographic Science and Technology in Czechoslovakia

- 4) Physics Institute of the Charles University: this institute is concerned with the study of the latent image (Professor Ladislay Zachoval). Zdeněk Berger, Karel Vacek, Olga Nováková and others are concerned with the effect of pressure on the absorption of Another line of research silver bromide, chloride and iodide. is the study of semiconductors and the sub-structure of zinc
- 5) The Sound and Image Research Institute: this institute is one of the major Czechoslovak institutes and carries out research and development work in scientific photography and cinematography. Professor Jaroslav Boukek is carrying out work on the sensitometry of photographic materials. Jaroslav Jahoda is working on colorimetry. The institute publishes the journal "ZOR" (Sound, Image and Reproduction) which publishes papers on sensitometry,
- 6) Film Department of the Academy of Arts: this department is the only one in Czechoslovakia which is concerned with the training of

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S/077/60/005/003/008/009 E032/E514

Photographic Science and Technology in Czechoslovakia film technicians. Professor Boucek is carrying out work on sensitometry in this department. 7) Laboratories of the Photographic Industry and the Research Institute of Photographic Chemistry: all the photo-chemical establishments in Czechoslovakia are at present combined in a national organization known as "Fotochema" or "Foma". organization produces a wide range of photographic materials (black and white and colour). This reduces the amount of photographic material which has to be imported from the USSR and East Germany. The Research Institute for Photographic Chemistry, which is a part of this organization, is concerned with the development It is also concerned with polarography. 8) Laboratory of the Gelatine Department of the Chemical Industry: Engineer Vaclav Krikava is carrying out a research and development programme in this department which is largely concerned with the sensitivity of photographic materials as a function of their 9) Gelatine Group of the Research Institute of the Tanning Industry: this group is being directed by Doctor Cvril Halamek,

s/077/60/005/003/008/009 E032/E514

Photographic Science and Technology in Czechoslovakia

is concerned with the manufacture of photographic gelatine and also consumable gelatine and glue. Professor Jan Schlemmer of the Advance School of the Chemical Industry is studying indirect methods of photography in infrared light and the Russell effect. Professor Jan Lauschmann (Lausmann) is studying methods of analysis in the photographic industry. He has recently published a monograph on this subject.

The present paper is a result of the present author's tour of Czechoslovakia during which the Czechoslovak Academy of Sciences provided him with the opportunity of visiting all the institutions

Card 5/5

LYALIKOV, K.S.; PETRUSHKINA, Z.L.; NOMOKONOVA, V.F.; RASTORGUYEV, N.G.

Dark discoloration of infrared sensitizers. Zhur. nauch. 1 prikl.
fot. i kin. 6 no. 3:178-185 My '61.

1. Laboratoriya aerometodov AN SSSR.
(Photography—Films)

VASIL'YEV, V.V.; LYALIKOV, K.S.; PERFILOV, N.A.

Sensitivity of extra-fine grained P-9 emulsions to the visible spectrum and their optical sensitization. Zhur. nauch. i prikl. fot. i kin. 6 no. 3:227-229 My '61. (MIRA 14:5)

1. Leningradskiy institut kinoinzhenerov. (Photographic emulsions)

IMALIKOV, K.S.; PETRUSHKINA, Z.L.; NOMOKONOVA, V.F.

Comparing the resolving power and the sharpmeas of two films

Comparing the resolving power and the sharpmeas of two films

for aerial photography. Zhur.nauch.i prikl. fot.i kin. 6 no.6:

(MIRA 15:1)

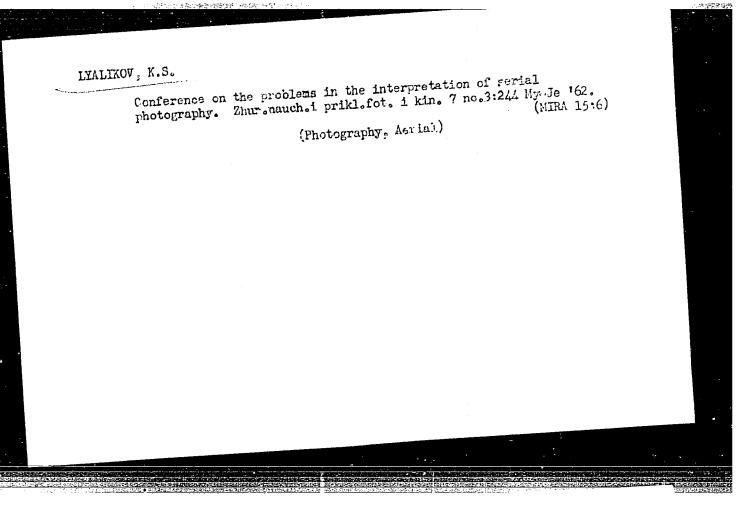
AlB-420 N-D '61.

1. Laboratoriya aerometodov AN SSSR.

(Photography, Aerial--Equipment and supplies)

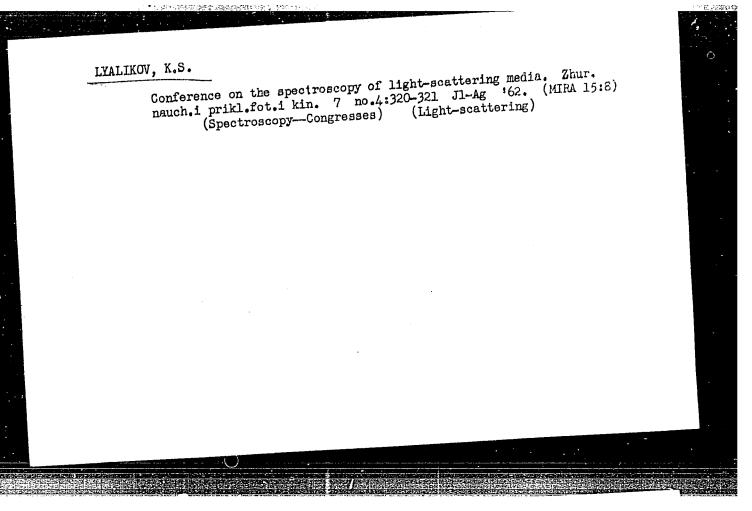
### "APPROVED FOR RELEASE: 06/20/2000

#### CIA-RDP86-00513R001031020008-6



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#### CIA-RDP86-00513R001031020008-6



Effect of the concentration of the initial solution on the size

of the AgBr grains. Zhur.nauch.i prikl.fot.i kin. 7 no.5:333(MIRA 15:11)

340 S-0 '62.

1. Laboratcriya aerometodov AN SSSR.
(Photographic emulsions—Testing) (Silver bromide)

Role of iodide in the process of physical ripening of emulsions.

Role of iodide in the process of physical ripening of emulsions.

Part 1: Silver iodobromide emulsions without addition of ammonia. Zhur auch i prikl fot i kin. 8 no.1:29-36 Ja-Feb (MIRA 16:2)

1. Laboratoriya aerometodov AN SSSR.

(Photographic emulsions) (Iodide)

Role of potassium iodide in the process of the formation of photographic enulsions. Part 1. Silver iodobromide ammonia-free emulsions. Zhur. nauch. i prikl. fot. i kin. 8 no.2:101-105 Mr-Ap '63. (MIRA 16:3)

l. Laboratoriya aerometodov AN SSSR i Leningradskiy institut kinoinzhenerov.

(Photographic emulsions) (Potassium iodide)

s/0077/64/009/002/0151/0155

ACCESSION NR: AP4026821

AUTHOR: Lyalikov, K. S.

TITLE: Second conference on the chemistry of photographic emulsions

SOURCE: Zhurnal nauchnoy i prikladnoy fotografii i kinematografii, v. 9, no. 2, 1964, 151-155

TOPIC TAGS: chemistry, photography, photographic emulsion, emulsion

ABSTRACT: The 15th conference on scientific photography took place in Kazan on . September 25-28, 1963. It was devoted to basic problems of theory and technology relating to the preparation of photographic emulsions. The number of participants was 229, and 27 papers were presented. V. I. Sheberstov delivered the introductory address, "A survey of factors determining the light sensitivity of photographic emulsions." K. V. Chibisov, Zh. L. Broun, and B. G. Varshaver reported on "The functions and evolution of centers of admixtures in emulsion monocrystals." They also presented the paper of Zh. L. Broun and L. P. Mel'nichuk on "The effect of chemical sensitization on the spectral sensitivity to admixtures." V. M. Shvertz and Z. V. Ivanova reported on "The effect of various emulsion factors on the

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# ACCESSION NR: AP4026821

sensitivity of photographic layers at long exposures." The second session was devoted to the physical chemistry of photographic emulsions. K. S. Lyalikova and K. M. Ginsburg presented a paper on "The effect of iodide on the formation and physical maturation of silver iodide-bromide emulsions." I. R. Protas, Yu. A. Krakau, and P. T. Sidorenkova reported on "The structural properties of photographic emulsions and of their resolution capacity." Yu. M. Prokhotskiy and Yu. B. Vilenskiy dealt with "Silver-halogen photographic emulsions with microcrystals of layer structure". G. P. Fayerman presented the topic "The effect of some emulsion stabilizers in various stages of synthesis and the storage of photographic emulsions." B. M. Ivanov and V. Ya. Pochinka discussed "An investigation of the stabilizers of photographic emulsions." The third session covered optical sensitization and the aging of photographic emulsions. L. G. Gross reported "An investigation of the effect of bromine ions and of the activators of optical sensitization on the phototransmitting capacity of the emilsion layer and on the depth of the hidden image." A. A. Sedyekova, M. D. Mirmil'shteyn, and P. V. Meyklyar presented a paper on "The effect of desensitizing agents and of the medium on the photosensitivity of sensitized photographic layers." A. S. Kheynman and V. P. Donatova dealt with the topic "The aging of infrachromatic layers." N. V. Siletskaya and S. I. Rywskins presented a paper on "Enhancing the photosensitivity and the

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AP4026821 ACCESSION NR:

stability of infrachromatic photographic materials." The topic of the fourth session was photographic gelatin and its substitutes, as well as the physicomechanical properties of emilsion layers. The introductory address by V. A. Bekunov was on "Photographic activity of gelatin", which was followed by a paper on "The photographic activity of gelatin in relation to its method of production, given by Ye. A. Zimkin, V. F. Klynchevich, Ya. B. Devyatov, and L. N. P'yankova. V. L. Zelikman, E. D. Korneva, S. K. Levi, and O. K. Smirnov reported on "Tanning of the emulsion layers intended for rapid photographic treatment." L. A. Khismatulina, S. M. Levi, L. M. Bogdanov, V. A. Kukhtin, and V. V. Kulina submitted a report on "The application of synthetic polymers in the manufacture of photosensitive materials." B. A. Tsarev, L. M. Zaytseva, V. V. Babkin, and L. I. Khramova discussed "Synthetic polymers as substitutes for gelatin in photographic emulsions." The fifth session was devoted to the extrusion method of pouring and the means for the separation of the solid phase of photographic emilsions. In the introductory address, S. M. Levi, T. M. Tsvetkov, and A. I. Babchin dealt with "The physical foundations of the extrusion method of pouring photographic emulsions and the role this method played in the development of cinematographic materials." D. A. Dusheyko, N. A. Petrova, S. A. Donskaya, Z. Ya. Shevohenko, and Yu. B. Vilenskiy

discussed "The method of synthesis of photographic emulsions with the separation of the solid phase by means of polymeric coagulants." G. H. Tsvetkov, L. M. Bogdanov, S. M. Levi, and T. K. Stepanova submitted a report on "The synthesis of photographic emulsions with the separation of the solid phase." V. I. Lipchanskaya spoke on "The peculiarities of technology in the synthesis of photographic emulsions with the precipitation of the solid phase by mechanical means." T. B. Kolesova presented a paper on "The development of the technology for the preparation of photographic emulsions with the precipitation of the solid phase. The last session was devoted to the technology of synthesis of photographic emulsions. S. M. Levi reported on the work of A. V. Borin, S. M. Levi, N. V. Makarov, N. V. Mishanova, T. M. Moshkina, A. I. Ryubinkova, O. K. Smirnov, and A. M. Churayeva on the sensitizing effect of the polymers of ethylene oxide, polyglycols, and their derivatives in relation to their chain length. V. L. Zelikman and V. A. Dmitriyeva gave a report entitled "The most important features in the technology of thin film production for the moving picture industry." S. A. Bongard and M. I. Vinitskaya presented a paper on "Some features of emulsion layers to obtain relief washouts." V. V. Vasil'yev reported on "The investigation of the possibility of increasing the sensitivity of fine-grained photographic emulsions. L. G. Sandler gave a report dealing with "A study on the effect of cystine on the photographic

Card 4/5

CIA-RDP86-00513R001031020008-6" APPROVED FOR RELEASE: 06/20/2000

ACCESSION NR: AP4026821

properties of silver chloride emulsion." The conference adopted a resolution properties of silver chioride emulsion." The conference adopted a resolution stating that, in spite of the number of successes in the field of production technology of photosensitive layers, there exist deficiencies in solving theoretical problems on the chemistry of photographic emulsions. There is also a lag in implementing the findings of completed scientific research. As a result, the conference made a number of recommendations for the establishment of experimental units at existing industrial photographic enterprises. Further expansion of the work on synthesizing of high polymer substitutes for gelatin and of new tanning agents for gelatin and polymer films was recommended.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 16Apr64

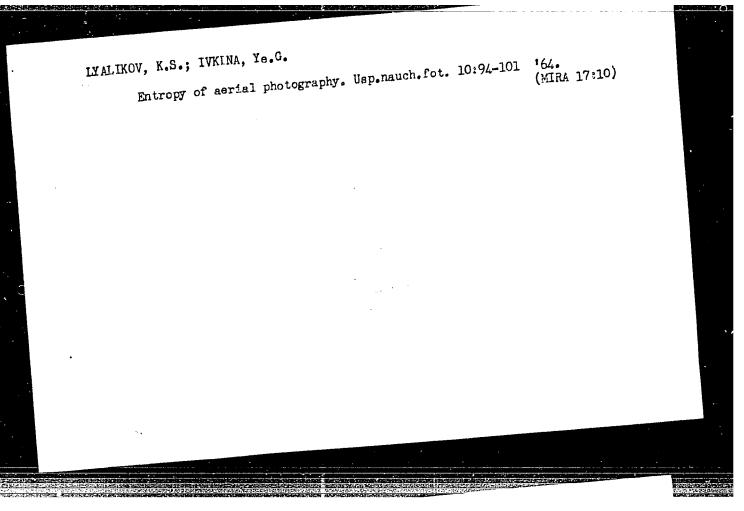
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NO REF SOV: 000

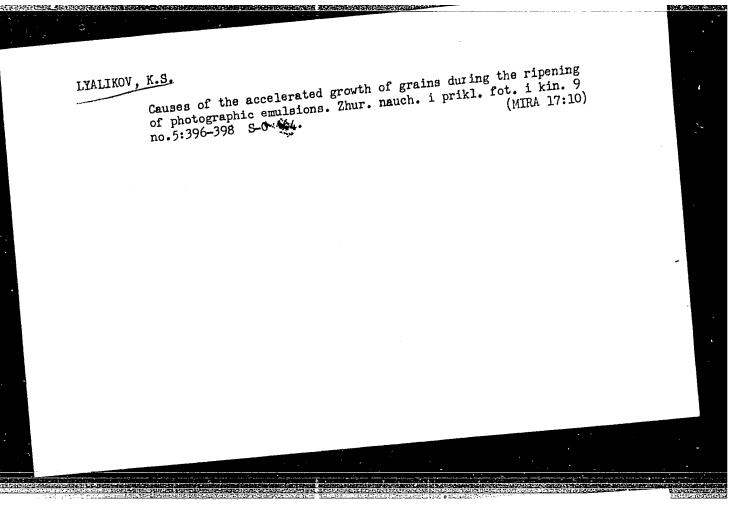
OTHER:

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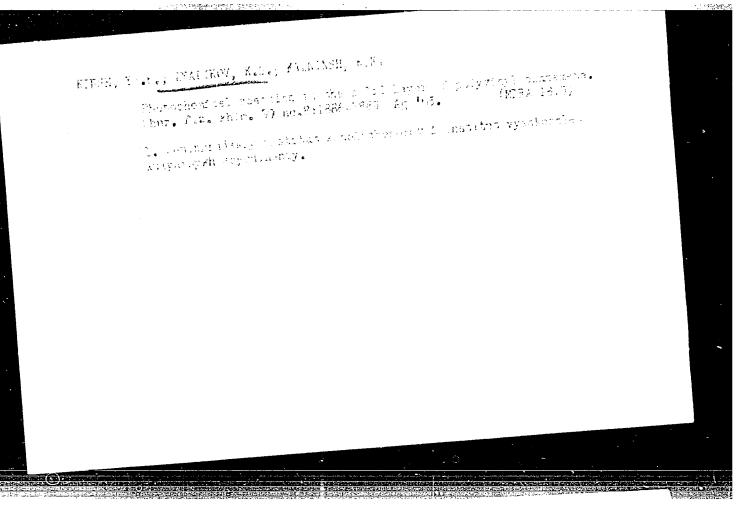
APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001031020008-6"

LYALIKOV, K.S.; KIRSH, Yu.E.; KOVALEVA, K.A.; AVGUSTINOVICH, N.P.

Sensitometry of light sensitive polymers. Zhur.nauch.i prikl.fot.

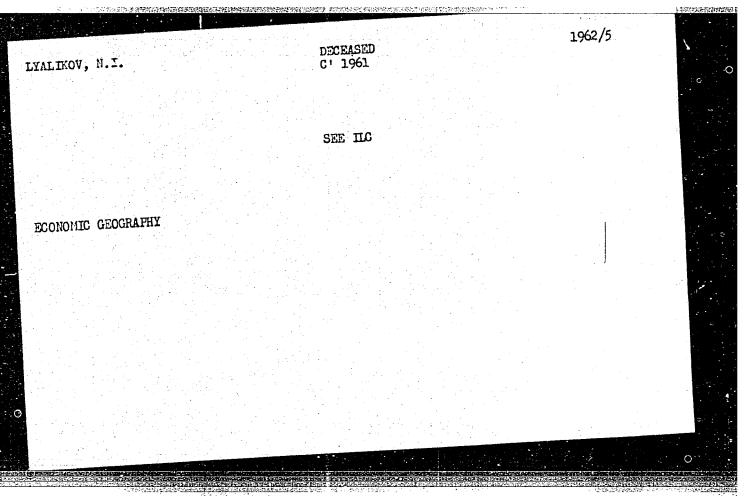
i kin. 10 no.3:200-206 My-Je '65. (MIRA 18:11)

1. Ieningradskiy institut kinoinzhenerov.



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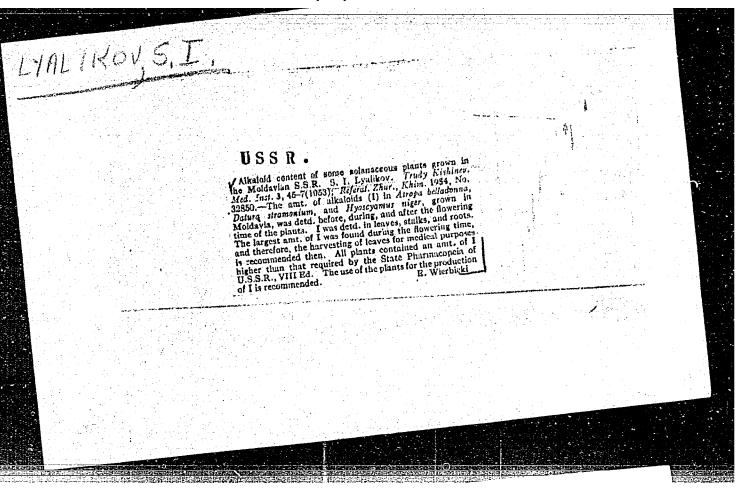
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ABSTRACT: An Author Certificate has been issued for a starting fluid containing diethylether. To minimize starting wear in a cold motor, industrial oil 12 is added diethylether. To minimize starting wear in a cold motor, industrial oil 12 [LD] up to 60% of the fluid by weight.	9
SUB CODE: 2// SUBM DATE: 21Mar63/	0
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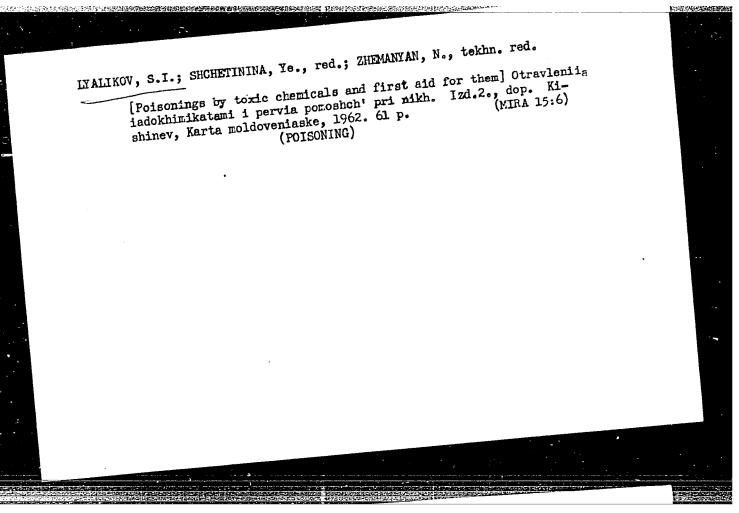
LYALIKOV, H. H., IVANOV, H. V., KUZHETSOV, S. I., and SOMOKIN, Y. I.

"Application of Madioactive Isotopes to the Study of Processes of Photosynthesis and Chemosynthesis in Lakes," a paper presented at the and Chemosynthesis and Chemos

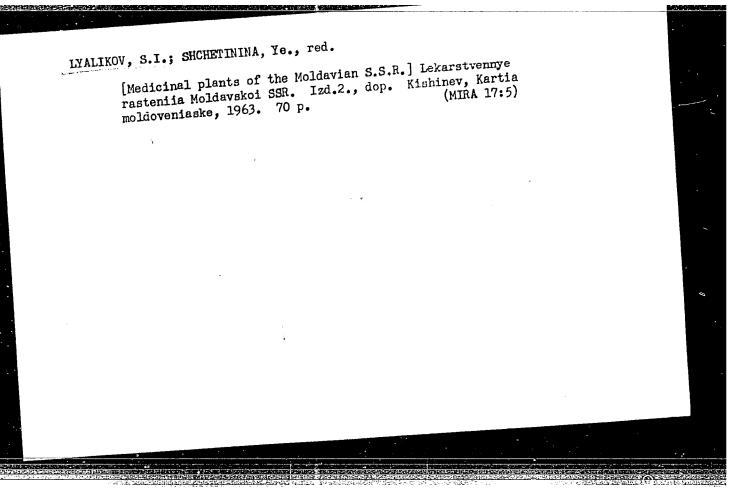
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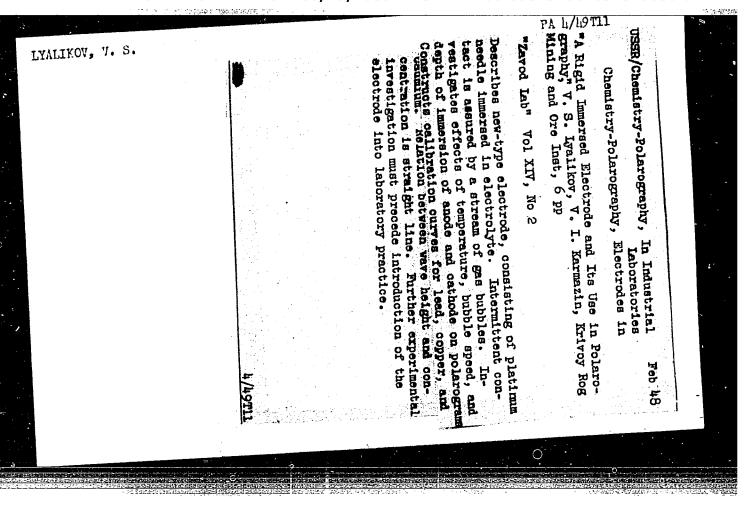




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SOV/106-58-10-4/13

Lyalikov, V.V. Nadenenko, B.S.,

Analysis of the Directional Properties of an Angle Antenna (Analiz napravlennykh svoystv ugolkovoy antenny) AUTHOR9

PERIODICAL: Elektrosvyaz', 1958, Nr 10, pp 26 - 31 (USSR) ABSTRACT: Calculation of the polar diagram of an angle antenna by the mirror image method leads to considerable error when the dimensions of the reflector are comparable with the In this article an approximate method of calculation of the polar diagram in the plane perpendicular wavelength. to the edge of the reflector is described. diagram in this plane depends on the length of the reflector (b of Fig 1) and to a much smaller degree on the is assumed that the width of the reflector is infinite. The angle antenna is shown in Fig 1. The edge of the reflector coincides with the z axis of a cylindrical system of co-ordinates. The dimension of the reflector along the z axis is infinite. The antenna is excited by an infinitely long conductor parallel to the z axis. A syn-phase current

of constant value flows in the conductor. radiation from an infinitely long conductor carrying a

CIA-RDP86-00513R001031020008-6" APPROVED FOR RELEASE: 06/20/2000

SOV/106-58-10-4/13

Analysis of the Directional Properties of an Angle Antenna syn-phase current, placed in an angle reflector of the vector

infinite dimensions was solved in Ref 1. The vector infinite dimensions was solved in Ref 1. The vector potential of the electromagnetic field of the conductor is given by Equation (1), in which the following symbols are used:

H(2) (kR) - Hankel function of the second type of mr order;

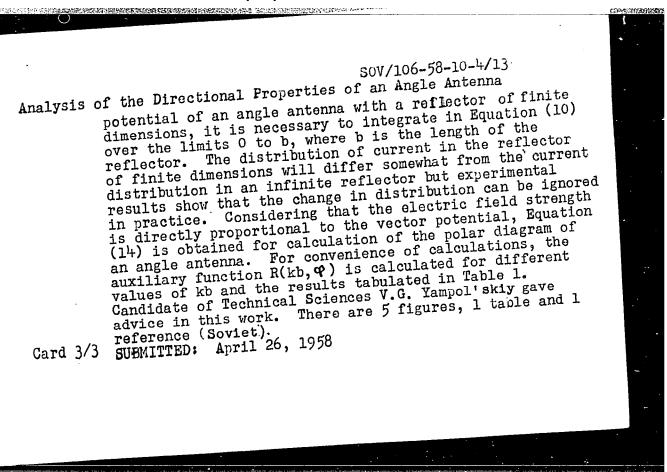
Imm (ka) - Bessel function of the mm order;

R) - Co-ordinates of the point at which the vector potential is calculated;

φ ) vector possible.

a ) - Co-ordinates of the radiating conductor.

It is found that the vector potential of an angle antenna with an infinite reflector is given by Equation (10) where with an infinite reflector is given by the current in the Lard 2/3 exciting conductor. For determination of the vector



SAFRONKOVA, N.N.; LYALIKOV, Yu.S.

Chemical analysis of semiconductor alloys of In - Sb - Te systems. Zav.
(MIRA 14:3)
lsb. 27 no.1:21-22 '61.

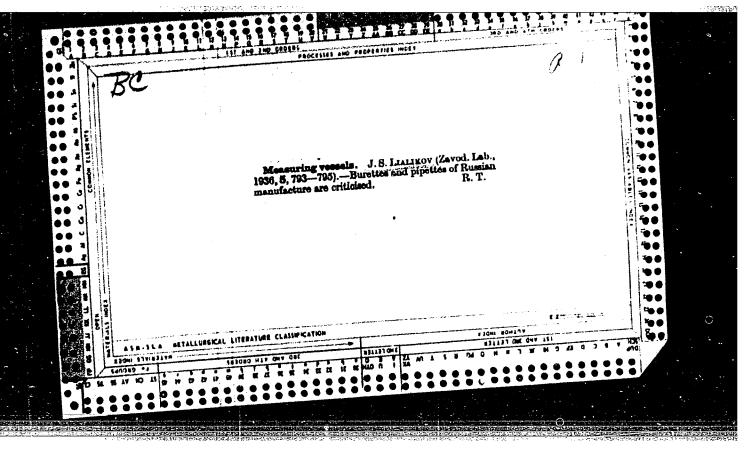
1. Institut khimii Moldavskogo filiala Akademii nauk SSSR.
(Indium- Analysis) (Antimony-Analysis (Teleurium-Analysis)

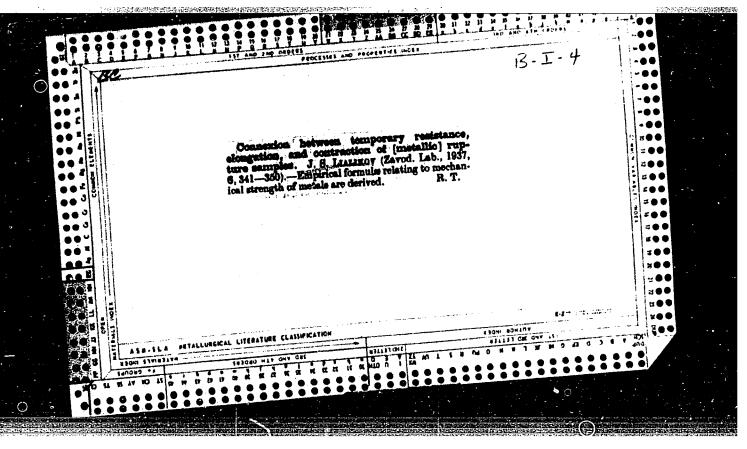
CHIKRYZOVA, Ye.G., red.; INALIKOV, Yu.S., red.; LIPIS, B.V., red.;
DMITHERIKO, N.Z., red.; SHCHETIFIKA, Ye.A., red.; LEDVICH,
M.M., tekhn. red.

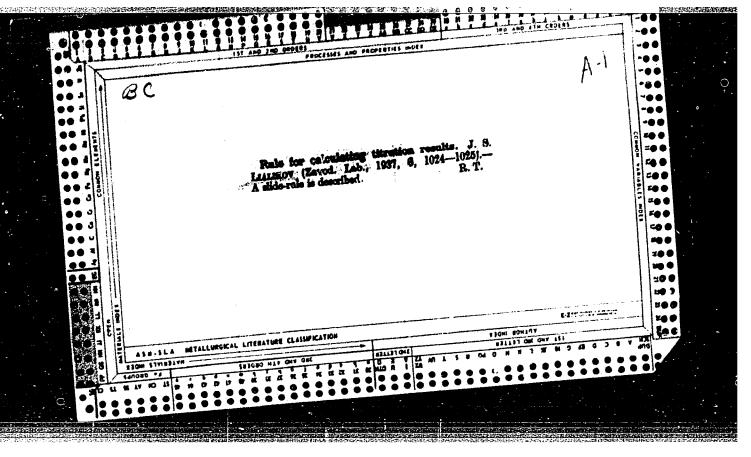
[Theory and practice of polarographic analysis]Teoriia i praktika poliarograficheskogo analiza; materialy. Kishinev, Izdvo "Shtiintsa" Akad. nauk Koldavskoi SSR, 1962. 425 p.
(MTRA 15:12)

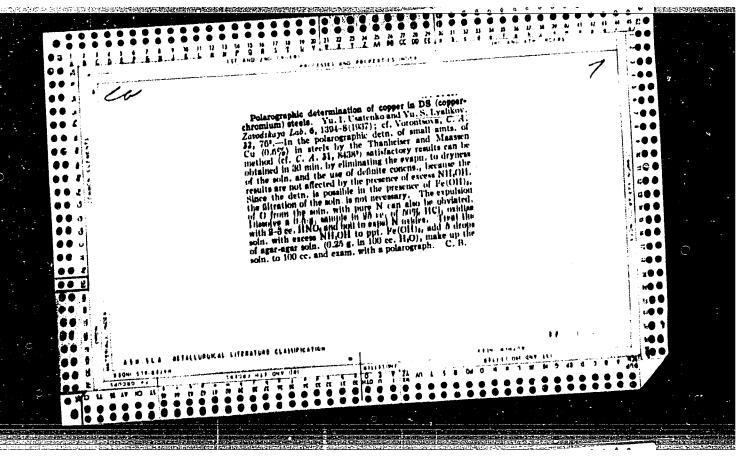
1. Vsescyuznoye soveshchaniye po polyarograficheskomu analizu.
lst, 1959.

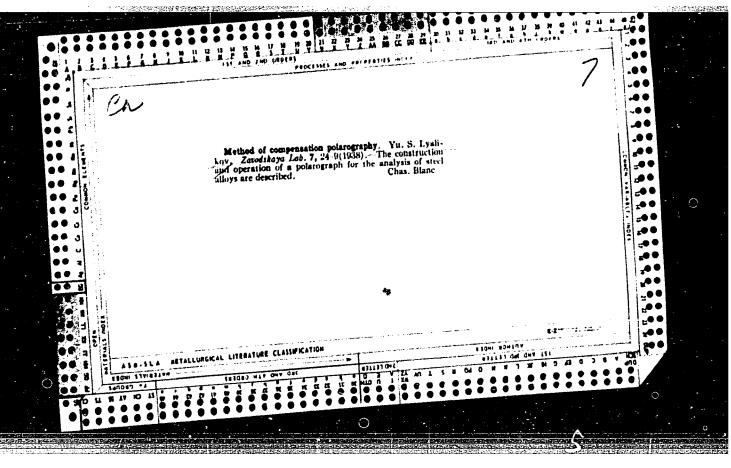
(Polarography—Congresses)

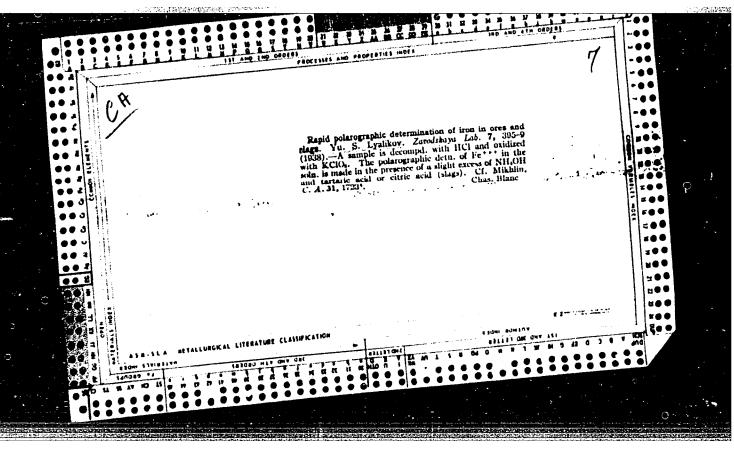


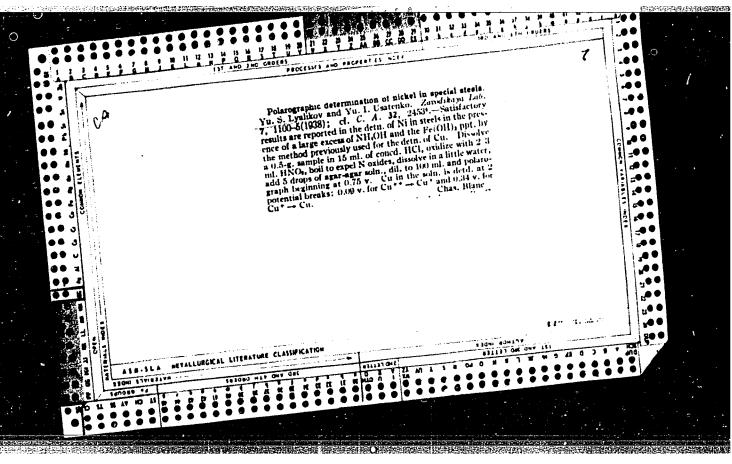


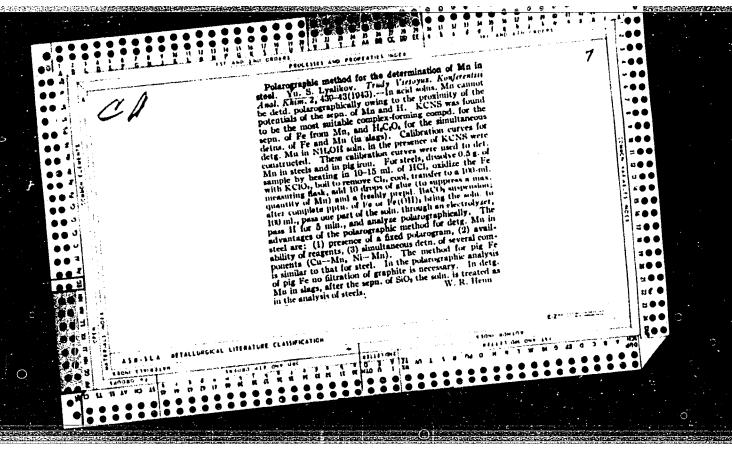


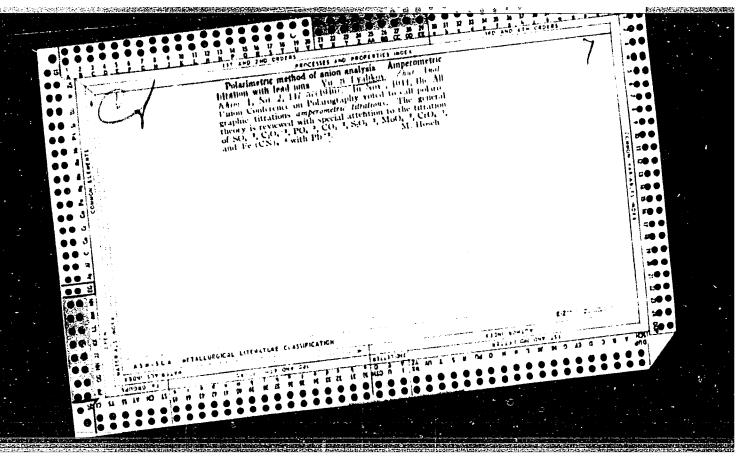


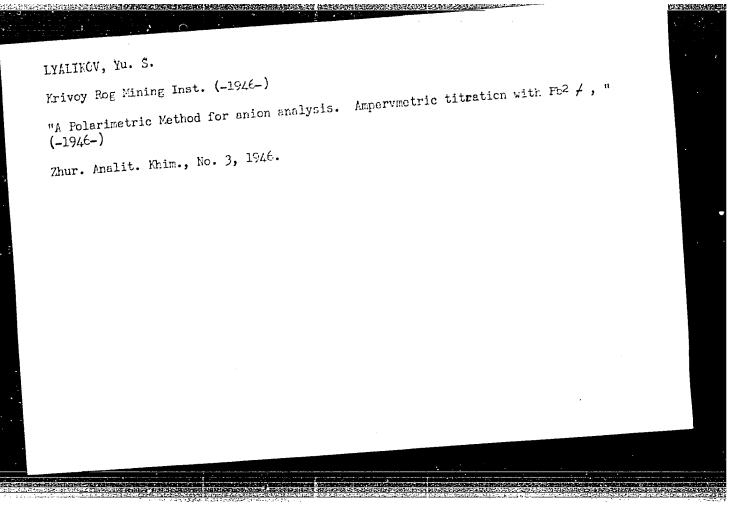


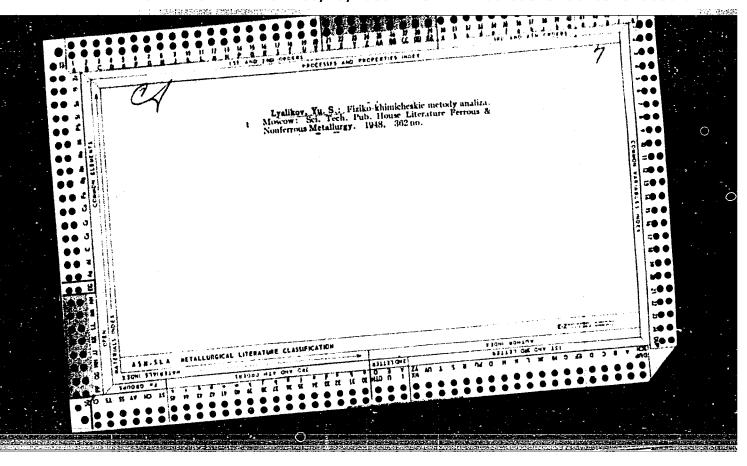


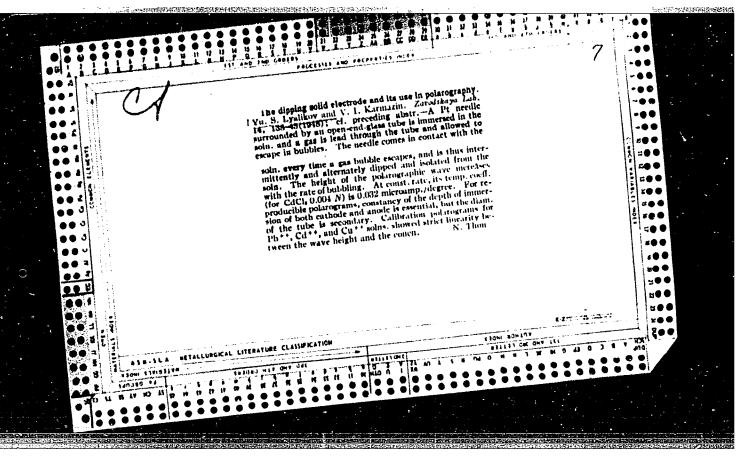




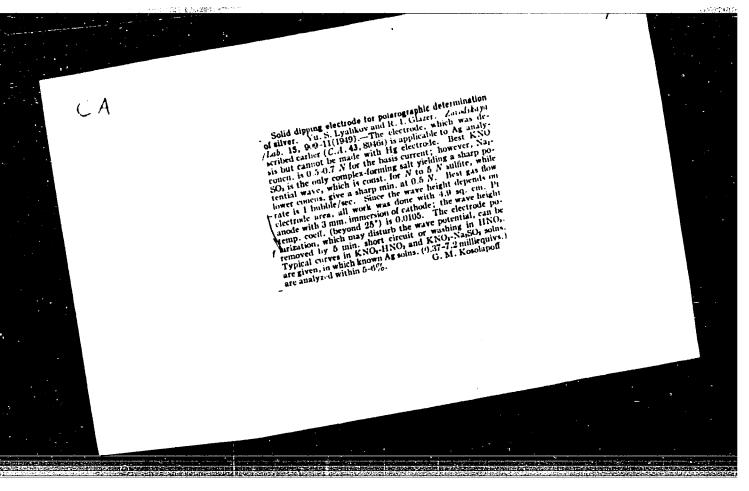


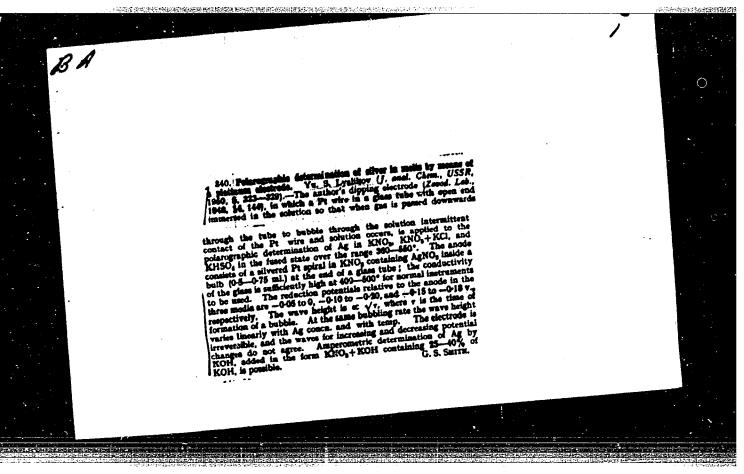


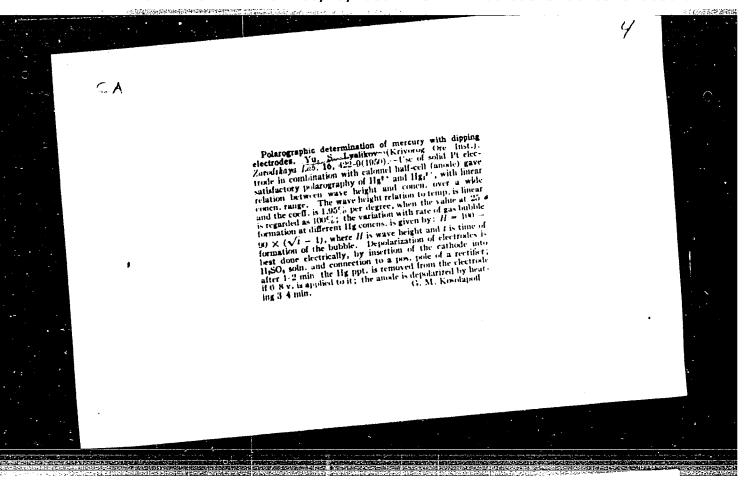


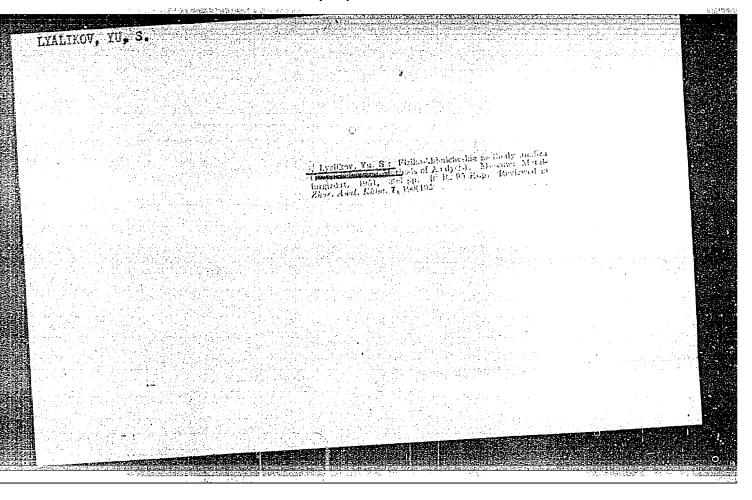


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LYALIKOV, YU. S.

Chemistry, Analytical

"Physiochemical analytical methods." Reviewed by P. K. Agasyan. Zhur. anal. khim. 7 nc. 3

Monthly List of Russian Accessions, Library of Congress, August 1952. Unclassified.

1. LYALIKOV, Yu. S.

2. USSR (600)

4. Salts

7. Polarography of fused salts. Zhur. anal. khim. 8, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.

## "APPROVED FOR RELEASE: 06/20/2000 CIA

CIA-RDP86-00513R001031020008-6

LYALIKOV, YU. S.

Analytical Chemistry

Dissertation: "Polarography of Molten Salts." Dr Chem Sci,

Dissertation: "Polarography of Molten Salts." Dr Chem Sci,

Inst of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy.

Inst of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy.

Acad Sci USSR, Oct-Dec 1953. (Wrief Summary Given) (Vestnik Akademii

Nauk, Moscow, Mar 54)

SO: SUM 213, 20 Sept 1954

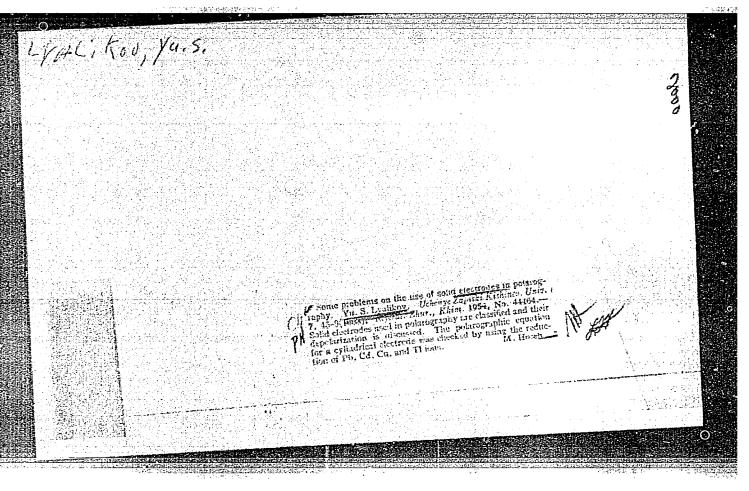
IMALIKOV, YU. S.

Yu. S. Lyalikov, V. I. Sakunov, and H. S. Tkachenko, Analia shelesnykin i nyrgatisa sith rud (Analysis of Iron and Hanganese Ore), Het Hurghedet.

The booklet precents practical notheds of analysis of iron and manganess ore in nine and plant laboratories, describing methods of coloction and preparation of essent, laboratory technique, apparatus for physiocochemical methods of analysis, and accident prevention in chemical laboratories.

The book is intended for nine and plant laboratory workers.

SO: Sevetelaire Imici (Seviet Books), No. 187, 1953, Moscour, (U-6472)

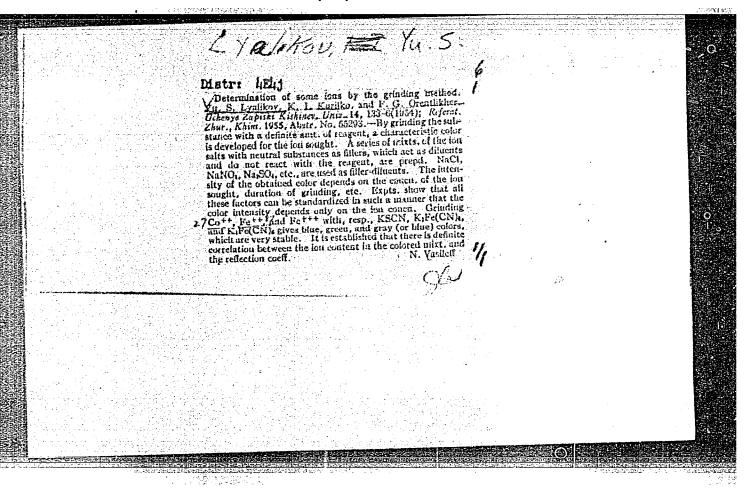


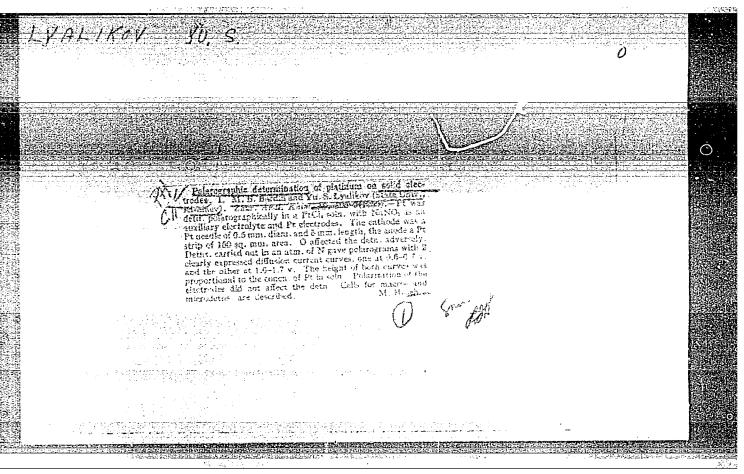
LYALIKOV, Yuriy Sergeyevich; SAKUNOV, Valentin Ivanovich; TKACHENKO,
Nikoley Stepanovich; CENEROZOV, B.A., redaktor; YEZDOKOVA, M.L.,
redaktor; EVENSON, I.M., tekhnicheskiy redaktor.

[Analysis of iron and manganese ores] Analiz zheleznykh i margantsevykh
rud. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tavetnoi
rud. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tavetnoi
metallurgii, 1954. 272 p.

(Iron ores--Analysis) (Manganese ores--Analysis)

(Iron ores--Analysis) (Manganese ores--Analysis)





## "APPROVED FOR RELEASE: 06/20/2000

### CIA-RDP86-00513R001031020008-6

LYALIKOV, YU.S.

137-58-5-11097

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 313 (USSR)

AUTHOR:

Lyalikov, Yu.S.

TITLE:

A Survey of Novel Inspection Methods in Metallurgical Industry (Obzor novykh metodov kontrolya v metallurgicheskoy promyshlennosti)

PERIODICAL:

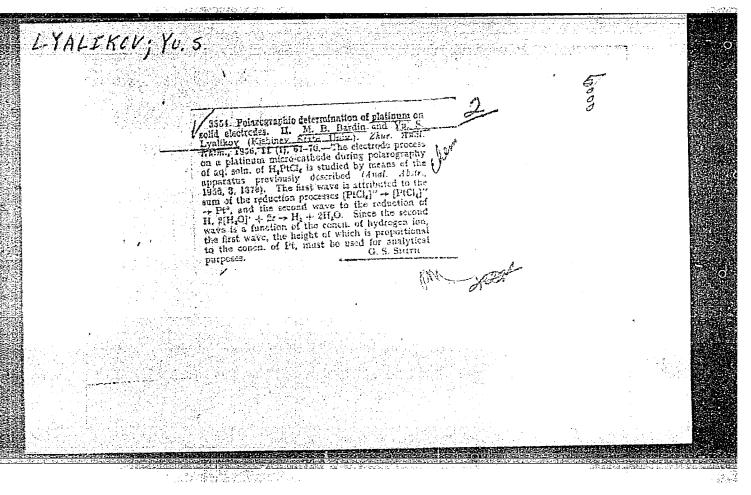
Tr. Nauchno-tekhn. o-va chernoy metallurgii. Ukr. resp. pravl., 1956, Vol 4, pp 11-21

ABSTRACT:

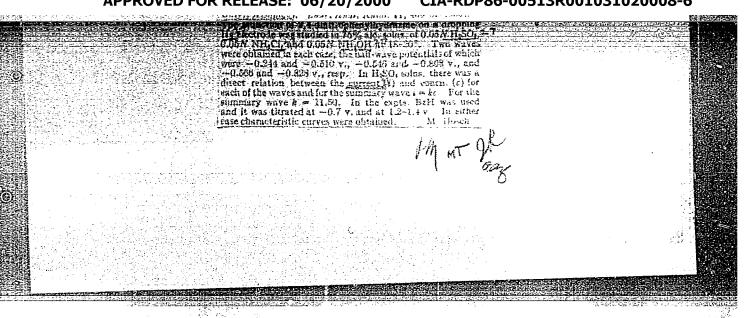
A survey. Of the 250 papers examined, 67 were devoted to calorimetric and photocolorimetric analyses, 22 dealt with polarographic methods; 15 papers were concerned with the employment of organic reagents, and 12 with electrolytical processes. 50% of all works in the field of analysis of ferrous metals are devoted to physicochemical methods. Bibliography. 91 references. V.N.

2. Metallurgy--Inspection 1. Metallurgy--Quality control

Card 1/1



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: Referat Zhur - Khimiya, No 4, 1957, 12172

Author

: Zobov Ye.V., Lyalikov Yu.S.

Title

An Experiment on Titration of Aldehyde with 2,4-Dinitro-

Phenylhydrazine

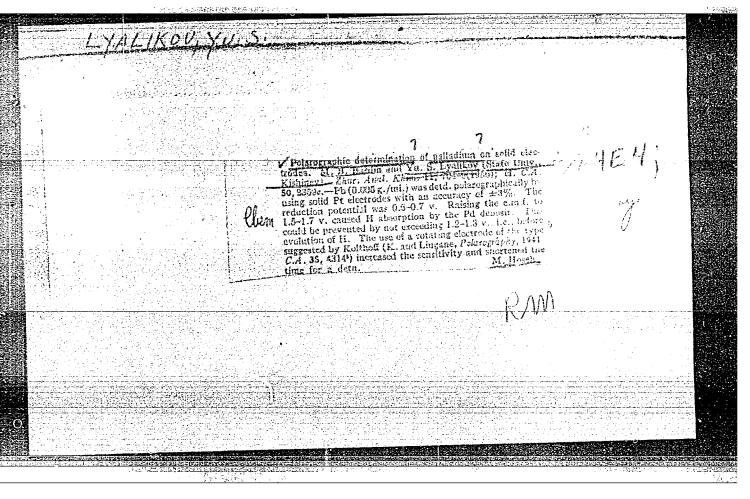
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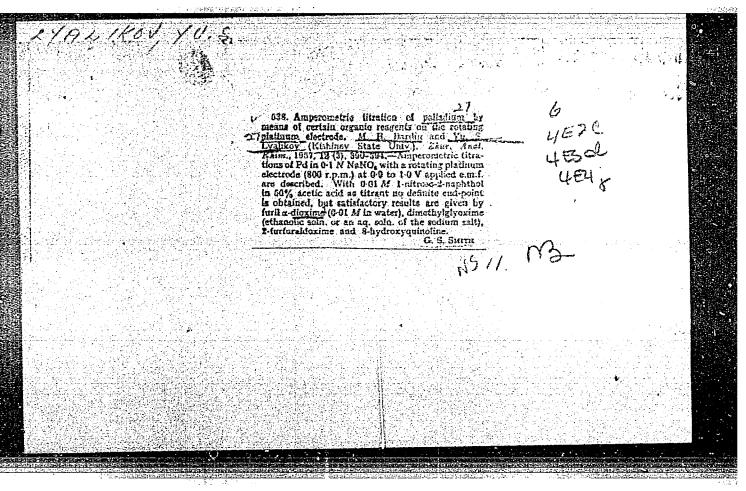
: Zh. analit. khimii, 1956, 11, No 4, 459-462

Abstract

: On study of polarographic properties of 2,4-dinitro-phenylhydrazine (I) it was found that with a H<sub>2</sub>SO<sub>||</sub> background I produces two waves of E½ - 0.244v and E½ - 0.510v. With NH<sub>1</sub>Cl background half-wave potentials are, respectively, - 0.546 and - 0.808v; with NH<sub>1</sub>OH background - 0.566 and - 0.828v. Benzaldehyde (II) produces a wave at potential - 1.0v. By titration at -0.7v there is obtained a rectified portion and a sharp rise of the current following the equivalence point. The resulting residual current (7 a) is constant and does not affect the titration results. On titration with an applied

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Namebnyyo Juklady sysoney shkoly. Knimiya i thimisheskeya PERIODICAL: town malogina, 1958, Nr 2, pp. 190-293 (USUR)

in fellows from publications dealing with this subject, clear paracographic caves as given in the classical instructions ARSTRACT:

published by Kol'tgof, Heyrovsky (Geyrovskiy), and others. see not always obtained in practical work. Figure 1 shows a chargeteristically distorted wave. The use of such vavas in practice proves that it is not always advicable to sim at distinctly "classical" waves, which sometimes is not possible either. The eveluation of the quality of the waves is mostly subjective. An objective evaluation, however, is of importance above all for the characteristic of the changes which the wave suffers when

changing and background, when introducing a foreign cleak roll beg a complex-forming substance, etc. The authors propose an objustive characteristic of the clearness of the polarographic

saves and they use the following parameters for this purpose: Gerd 3/3

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On the Problem of the Characteristics of Polarographic Paves

a) the amount of sector of the residual current before the west  $a_n$ , expressed in vect. The condition of a great expression of the save is  $s_{L} \geqslant 0.1 \text{ W; b}$ ) the amount of the sector of the curinum equennt helind the rave apparance experience to being The condition as shower  $\kappa_{\rm k}\!\!>\!\!0,1$  V; a) the angle of both the clevetion and the end of the wave  $\alpha_{\hat{K}}$  and  $\alpha_{\hat{K}}$  in degrees. This characteristic toristic feature depends on the polarographic background and of the processon of foreign substances; d) the cagie of the elevetion of the sector of the initial current in proportion to the hosizonist line of the chackground. The introduction of west. enaracteristics makes it possible - according to the estable opinion - to compare different polaregrouble carred with the ofber. Home curves from literature and From the can practice the agait with as example according to the proposed mother. Fly. 2: 2 choss polarograms for gallium (her 1), Figure 5 - yer skinds of on could electrodes (Ref 2). Comparing the compared the control of androws (Night table page 292) the first and denote the restaurant to cedeswity clear, the second one to unclear the accord move

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On the Problem of the Characteristics of Polarographic Waves

is more extended than the first one. Figure 4 gives the polarogram for gold; figure 5 that for platinum. In these cases too, the afore-said parameters characterize the distortion and deberieration of the polarographic waves. There are 5 figures. 5 tables, and 2 references, which are Soviet.

ASSOCIATION: Kafedra aneliticheskoy khimii Kishinevskogo gosudarstvennogo universiteta (Chair of Analytical Chemistry Kishinev State

University)

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